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(21)Application number : **2000-189543** (71)Applicant : **FUJI PHOTO FILM CO LTD**

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### (54) PHOTOELECTRIC CONVERSION ELEMENT AND PHOTOCELL

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a dye sensitized photoelectric conversion element superior in output voltage by easily adjusting the energy level of a semiconductor, having high conversion efficiency, and easy to manufacture.

SOLUTION: In this photoelectric conversion element having a semiconductor fine grain layer sensitized by a dye, and a charge carrier layer, the semiconductor fine grain layer includes at least one kind of second metallic element of  $\geq 0.01$  mol% and  $< 50$  mol% to a first metallic element as the main element, with the first metallic element. A photocell uses this photoelectric conversion element.

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